

## Complete Summary

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### TITLE

Diagnosis and management of basic infertility: percentage of women with either laparoscopies or tubal surgery with recommended prior tests.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of basic infertility. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jul. 47 p. [85 references]

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of women evaluated for infertility with either laparoscopies or tubal surgery with recommended prior tests.

### RATIONALE

The priority aim addressed by this measure is to increase the rate of women who receive a basic infertility work-up before laparoscopic or surgical intervention.

### PRIMARY CLINICAL COMPONENT

Infertility; laparoscopy; laparotomy; tubal surgery; ovulatory factor testing; menstrual history; dehydroepiandrosterone (DHEA-S); follicle stimulating hormone (FSH); total serum testosterone; prolactin; thyroid stimulating hormone (TSH); hysterosalpingography; semen analysis

### DENOMINATOR DESCRIPTION

Number of women with infertility diagnosis who have had laparoscopies or tubal surgery (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

### NUMERATOR DESCRIPTION

Number of women with recommended prior tests (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

## Evidence Supporting the Measure

### PRIMARY MEASURE DOMAIN

Process

### SECONDARY MEASURE DOMAIN

Not applicable

### EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

### NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Diagnosis and management of basic infertility.](#)

## Evidence Supporting Need for the Measure

### NEED FOR THE MEASURE

Unspecified

## State of Use of the Measure

### STATE OF USE

Current routine use

### CURRENT USE

Internal quality improvement

## Application of Measure in its Current Use

### CARE SETTING

Physician Group Practices/Clinics

### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

### LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

TARGET POPULATION AGE

Unspecified

TARGET POPULATION GENDER

Female (only)

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Getting Better

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

## DESCRIPTION OF CASE FINDING

Number of women with infertility diagnosis who have had laparoscopies or tubal surgery

Data can be collected concurrently with those who schedule tubal surgeries using the form included in the original measure documentation; alternatively, data can be collected retrospectively by chart review.

Data can be collected monthly or quarterly depending upon the volume of patients.

## DENOMINATOR SAMPLING FRAME

Patients associated with provider

## DENOMINATOR (INDEX) EVENT

Clinical Condition  
Therapeutic Intervention

## DENOMINATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Number of women with infertility diagnosis who have had laparoscopies or tubal surgery\*

\*Identifier for laparoscopies (Current Procedure Terminology [CPT-4] codes):

- 56300 Diagnostic
- 56304 Lysis of adhesions

Identifier for laparotomies (CPT-4 codes):

- 49000 Exploratory
- 49002 Lysis of adhesions

Identifier for tubal surgery (CPT-4 codes):

- 58740-58770 Tubal surgery

Exclusions  
Unspecified

## NUMERATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Number of women with recommended prior tests\*

\*Recommended tests for laparoscopy:

- Ovulatory factor tested (at least one on the list):
  - History of regular menses
  - Current Procedure Terminology (CPT-4) code:
    - 82626 Dehydroepiandrosterone (DHEA-S)
    - 83001 Follicle stimulating hormone (FSH)
    - 84403 Total serum testosterone
    - 84146 Prolactin
    - 84443 Thyroid stimulating hormone (TSH)
- Hysterosalpingography (at least one):
  - CPT-4 codes: 58340, 58345, 58350, 74740
- Partner has had a semen analysis:
  - CPT-4 code: 89320

\*Recommended tests for tubal surgery:

- Ovulatory factor tested (at least one on the list):
  - History of regular menses
  - CPT-4 code:
    - 82626 Dehydroepiandrosterone (DHEA-S)
    - 83001 Follicle stimulating hormone (FSH)
    - 84403 Total serum testosterone
    - 84146 Prolactin
    - 84443 Thyroid stimulating hormone (TSH)
- Hysterosalpingography (at least one):
  - CPT-4 codes: 58340, 58345, 58350, 74740
- Partner has had a semen analysis:
  - CPT-4 code: 89320
- Previous laparoscopy:
  - CPT-4 codes: 56300, 56304, 49000, 49002

Exclusions  
Unspecified

DENOMINATOR TIME WINDOW

Time window precedes index event

NUMERATOR TIME WINDOW

Episode of care

DATA SOURCE

Administrative data  
Medical record

LEVEL OF DETERMINATION OF QUALITY

Individual Case

## PRE-EXISTING INSTRUMENT USED

Unspecified

## Computation of the Measure

### SCORING

Rate

### INTERPRETATION OF SCORE

Better quality is associated with a higher score

### ALLOWANCE FOR PATIENT FACTORS

Unspecified

### STANDARD OF COMPARISON

Internal time comparison

## Evaluation of Measure Properties

### EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

### ORIGINAL TITLE

Percentage of women with either laparoscopies or tubal surgery with recommended prior tests.

### MEASURE COLLECTION

[Diagnosis and Management of Basic Infertility Measures](#)

### DEVELOPER

Institute for Clinical Systems Improvement

### ADAPTATION

Measure was not adapted from another source.

### RELEASE DATE

2003 Apr

#### REVISION DATE

2004 Jul

#### MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of infertility. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Apr. 54 p.

#### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of basic infertility. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jul. 47 p. [85 references]

#### MEASURE AVAILABILITY

The individual measure, "Percentage of women with either laparoscopies or tubal surgery with recommended prior tests," is published in "Health Care Guideline: Diagnosis and Management of Infertility." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

#### NQMC STATUS

This NQMC summary was completed by ECRI on February 9, 2004. This summary was updated by ECRI on October 11, 2004.

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